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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,621	07/25/2003	Toshiro Anraku	12014-0019	9370

7590

08/09/2004

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EXAMINER

NICHOLSON, ERIC K

ART UNIT PAPER NUMBER

3679

DATE MAILED: 08/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

o

Office Action Summary

Application No.

10/626,621

Applicant(s)

ANRAKU ET AL.

Examiner

Eric K Nicholson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6-9-04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections – 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4,6-8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 4,871,194 to Kawashima et al. in view of U.S. patent 6,027,145 to Tsuru et al.. Kawashima et al. disclose the claimed device with A threaded joint for steel pipes comprising a pin 18 and a box 20 each having a contact surface including a threaded portion 10 and an unthreaded contact portion

12, wherein the contact surface of at least one of the pin and the box is coated with a metallic undercoating layer 16 and a lubricating coating layer thereon (column 4, lines 40-45), the undercoating layer has a porosity of 5 - 80% (column 4, lines 35-40) and a thickness of 1 – 30 um (column 3, lines 45-55), the lubricating coating layer being a liquid lubricating coating with the total thickness of the undercoating layer and the lubricating coating layer less than 100 um. However, the lubricating coating is said (column 4, lines 40-45) to contain heavy metal powders. Tsuru et al. presents (column 2, lines 50-65) that it is known in the art to provide a similar type coupling where the lubricant compound does not includes heavy metal powders due to environmental concerns. It would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the lubricant of the Kawashima et al. coupling with lubricant that does not include heavy metal powders such as taught in Tsuru et al. in order to protect the environment from excess lubricant containing the heavy metal powders.

As to claim 2, since the same material for the undercoating it being used (column 3, lines 45-50) the material inherently would provide the same hardness of 50 - 250 Hv. As to claims 3 and 7, see all of column 3 continuing to lines 1-5 of column 4 which indicate the undercoating layer is formed by blast coating. As to claims 4 and 8, see column 3, lines 45-50 which indicates the undercoating layer is formed

of a metal selected from Zn or Al or the like. As to claims 6 and 10, see column 21 which discloses using a binder in the solid lubricant coating, the binder being organic or inorganic.

Claims 5 and 9 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. patent 4,871,194 to Kawashima et al. in view of U.S. patent 6,027,145 to Tsuru et al. as applied to claims 1-4,6-8 and 10 above, and further in view of U.S. patent 3,625,893 to Brook. As noted above the combination of Kawashima et al. and Tsuru et al. discloses the claimed invention except for the particular lubricant of a basic metal salt of an organic acid. Brook discloses such a lubricant (column 2, lines 15-25). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the lubricant of Brooke having a basic metal salt of an organic acid as the lubricant of Kawashima et al. and Tsuru et al. combination in order to provide further corrosion resistance and further, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Nicholson whose telephone number is (703) 308-0829. The examiner can normally be reached on Tuesdays thru Fridays from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola, can be reached on (703) 308-2686. The fax phone number for Technology Center 3600 is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center receptionist whose telephone number is (703) 308-1113.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

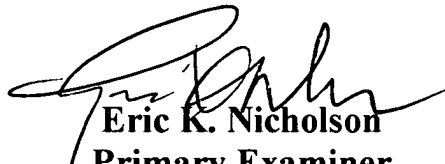
only. For more information about the PAIR system, see <http://pair->

[direct.uspto.gov](http://pair-direct.uspto.gov). Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

ekn

7/29/04



Eric K. Nicholson
Primary Examiner
Technology Center 3600